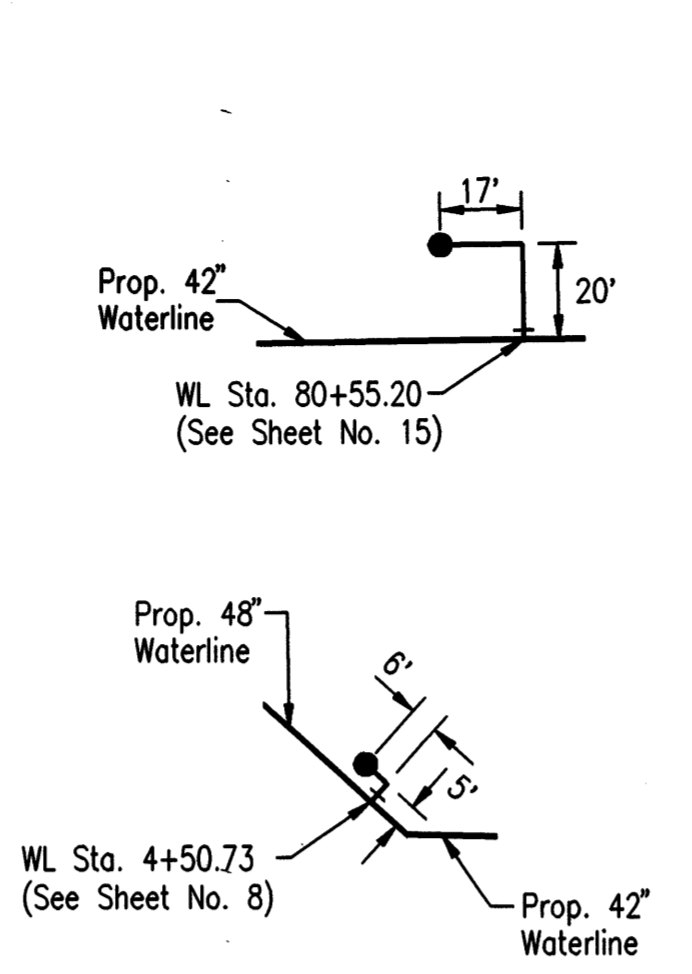


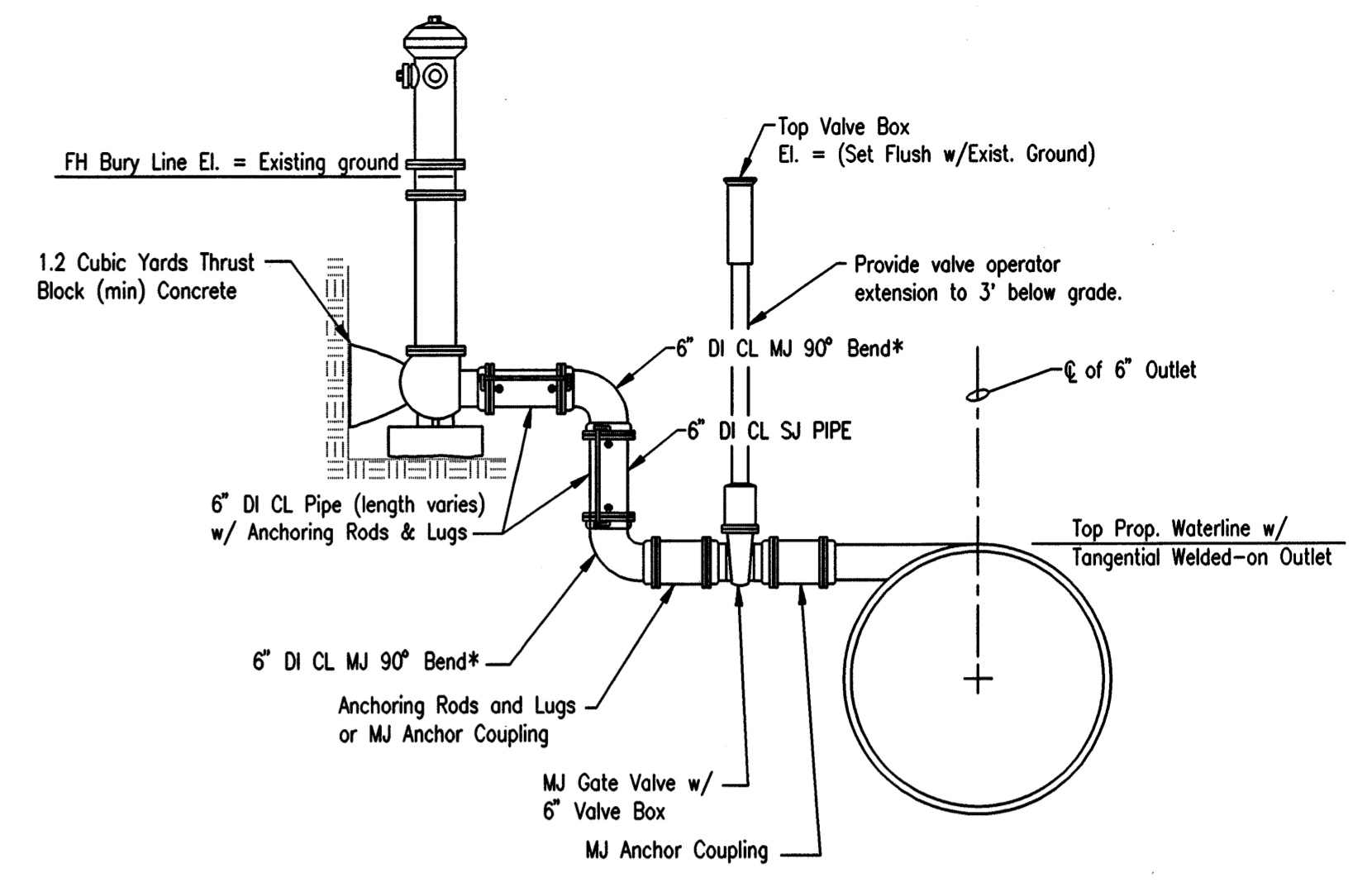
**FLUSHING HYDRANT ASSEMBLY**  
(See Sheet No. 8 & 15)

- 1) ALL BLOCKING TO BE POURED CONCRETE CLASS II.
- 2) USE STANDARD 5' BURY HYDRANT
- 3) ALL PIPING AND FITTINGS BETWEEN THE MAIN AND THE FIRE HYDRANT SHALL BE DUCTILE IRON.
- 4) FITTINGS OTHER THAN THOSE SHOWN OR ROTATED FITTINGS MAY BE REQUIRED IN ORDER TO ALIGN THE FIRE HYDRANT AT THE PLAN LOCATION. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL REQUIRED PIPE AND FITTINGS NECESSARY TO COMPLETE THE WORK AT NO ADDITIONAL COST TO THE OWNER.



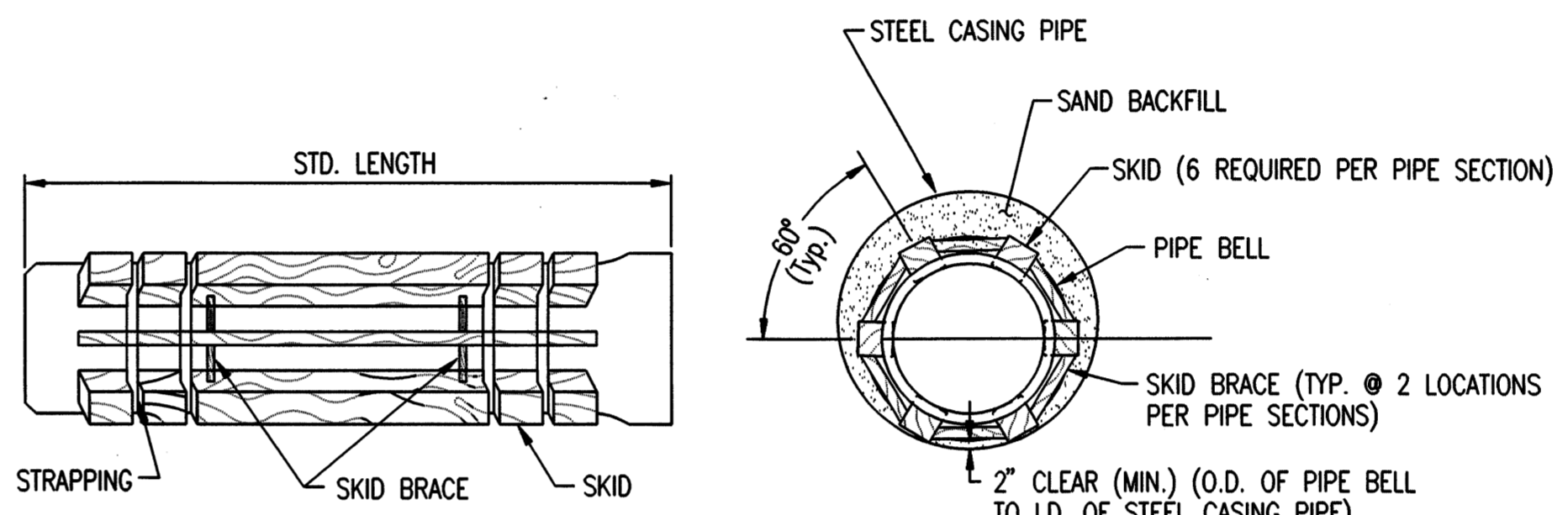
**FLUSHING HYDRANT LOCATION HORIZONTAL LAYOUTS**

**PURGING HYDRANT LOCATION HORIZONTAL LAYOUTS**

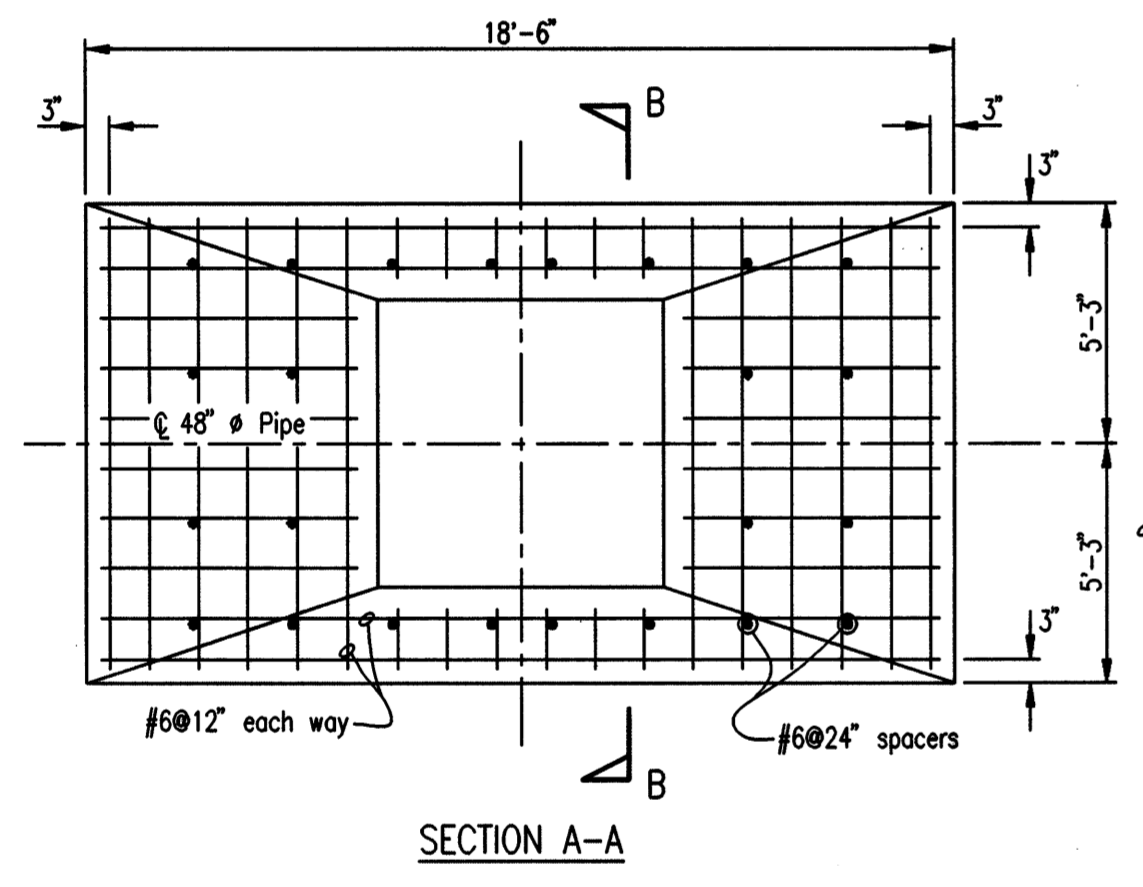


**PURGING HYDRANT ASSEMBLY**  
(See Sheet No. 10)

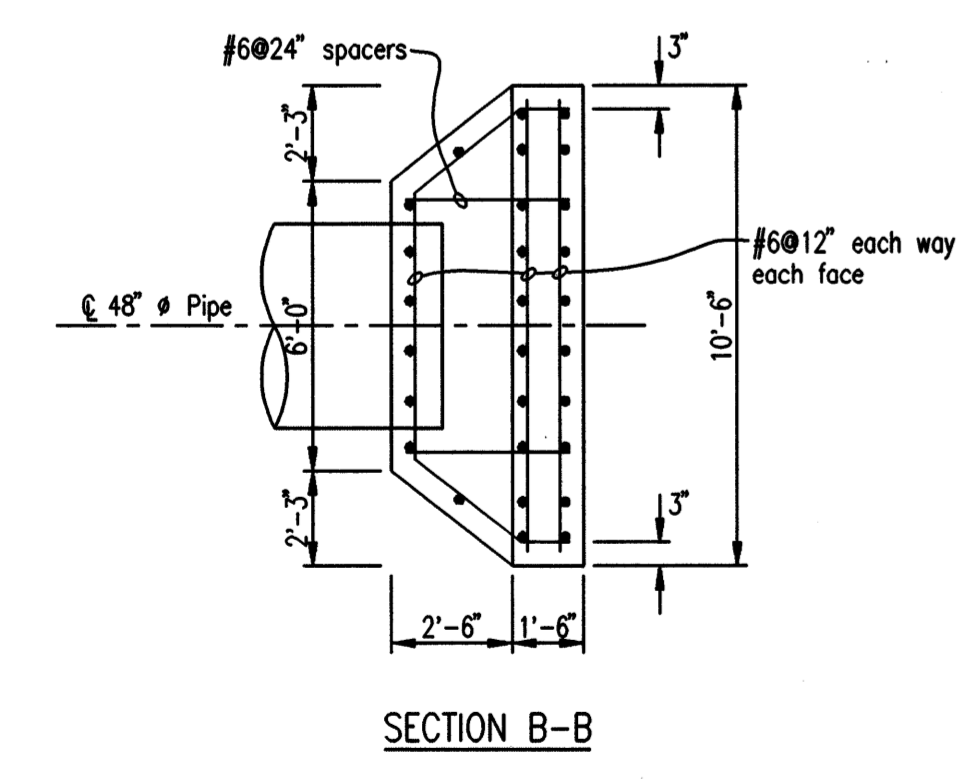
- 1) ALL BLOCKING TO BE POURED CONCRETE CLASS II.
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- 3) ALL PIPING AND FITTINGS BETWEEN THE MAIN AND THE FIRE HYDRANT SHALL BE DUCTILE IRON.
- 4) FITTINGS OTHER THAN THOSE SHOWN OR ROTATED FITTINGS MAY BE REQUIRED IN ORDER TO ALIGN THE FIRE HYDRANT AT THE PLAN LOCATION. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL REQUIRED PIPE AND FITTINGS NECESSARY TO COMPLETE THE WORK AT NO ADDITIONAL COST TO THE OWNER.



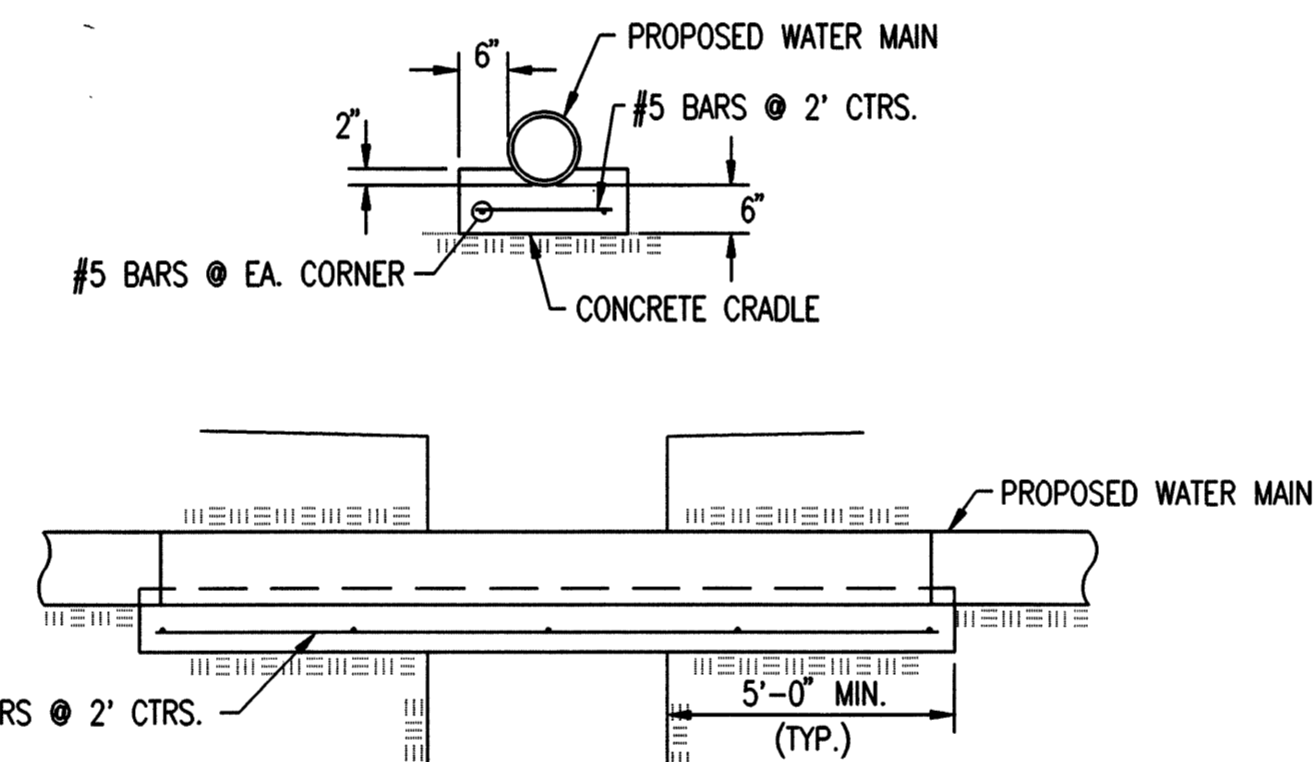
**STEEL ENCASEMENT DETAIL**



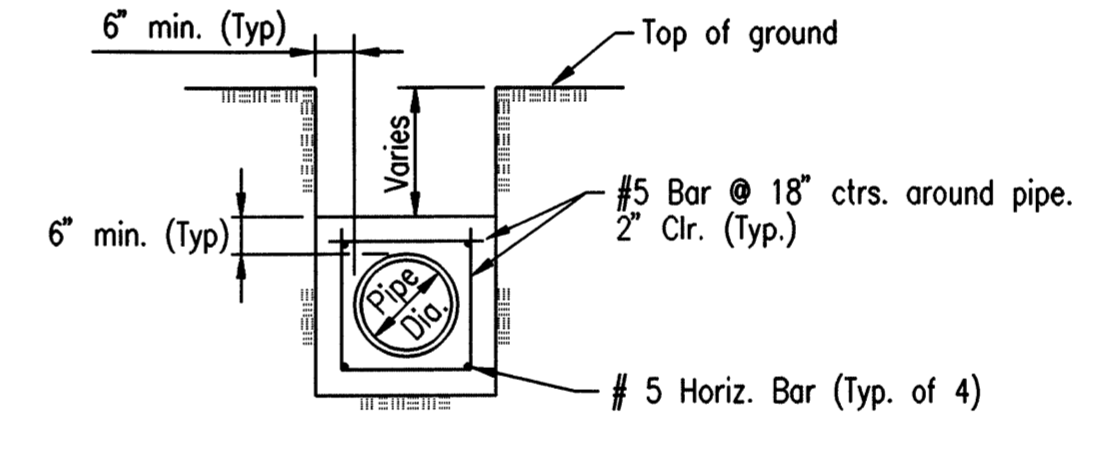
**SECTION A-A**



**SECTION B-B**

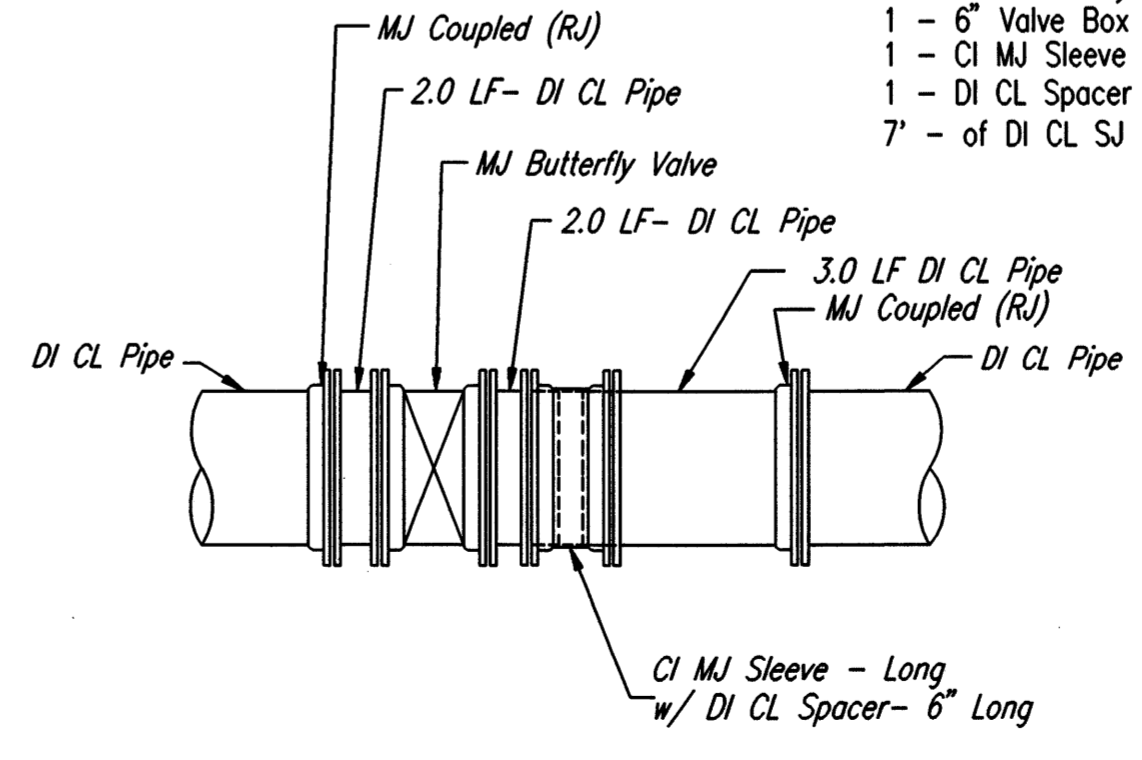


**CONCRETE CRADLE DETAIL**



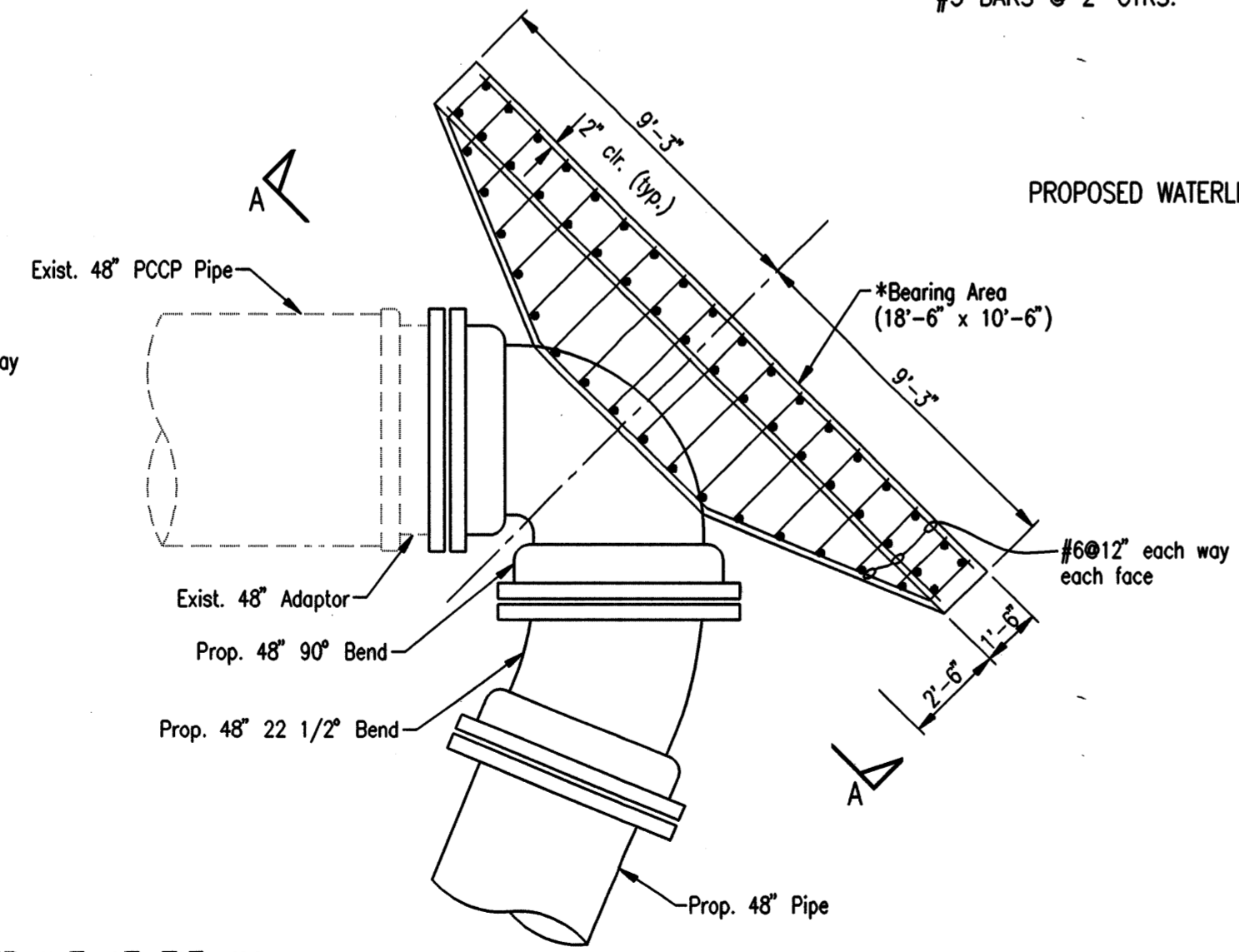
**CONCRETE ENCASEMENT DETAIL**

- MATERIALS LIST**
- 1 - MJ Butterfly Valve
  - 1 - 6" Valve Box
  - 1 - CI MJ Sleeve - Long
  - 1 - DI CL Spacer - 6" Long
  - 7' - of DI CL SJ Pipe



**LINE VALVE DETAIL \*\***  
DI CL OPTION

\*\*THE CONTRACTOR SHALL UTILIZE RESTRAINED JOINT PIPE AND/OR THE RODS TO RESTRAIN ALL PIPING AT THE VALVE LOCATIONS.



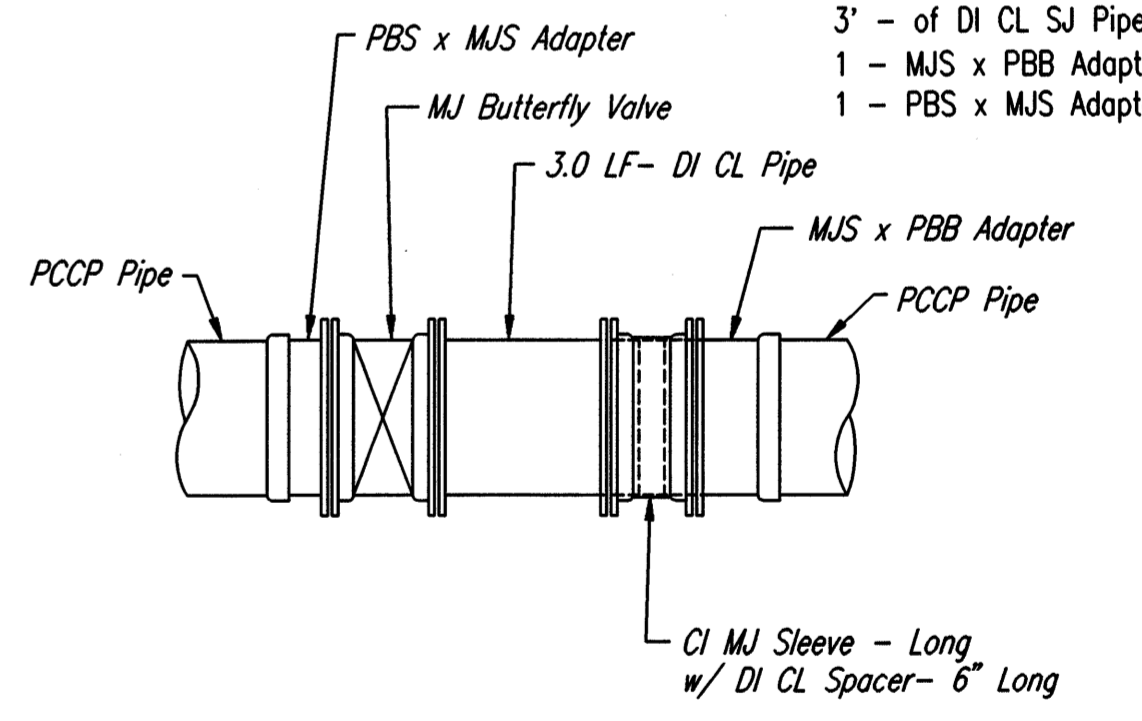
**THRUST RESTRAINT AT TIE-IN**  
(See Sheet No. 8, WL NO. 1, Sta. 2+85.60)

NOTE: COST OF THRUST RESTRAINT SHALL BE CONSIDERED SUBSIDIARY TO THE UNIT PRICE BID FOR PIPE IN PLACE.

\*BEARING AREA OF THE THRUST RESTRAINT SHALL BE CONSTRUCTED UP TO UNDISTURBED SOIL.

CONCRETE FOR THRUST RESTRAINT SHALL HAVE A MIN. 28 DAY COMPRESSIVE STRENGTH OF 3000 PSI. REINFORCING STEEL SHALL CONFORM TO ASTM DESIGNATION A615 GRADE 60.

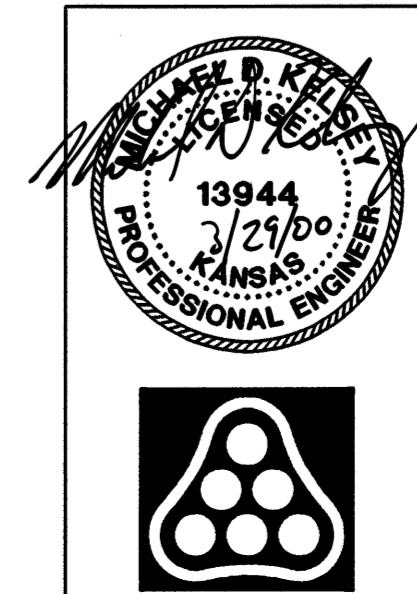
- MATERIALS LIST**
- 1 - MJ Butterfly Valve
  - 1 - 6" Valve Box
  - 1 - CI MJ Sleeve - Long
  - 1 - DI CL Spacer - 6" Long
  - 3' - of DI CL SJ Pipe
  - 1 - MJS x PBB Adapter
  - 1 - PBS x MJS Adapter



**LINE VALVE DETAIL \*\***  
PCCP OPTION

\*\*THE CONTRACTOR SHALL UTILIZE RESTRAINED JOINT PIPE AND/OR THE RODS TO RESTRAIN ALL PIPING AT THE VALVE LOCATIONS.

DSNR: MDK OPER: JLM SCALE: 1=1.00 Q: 1996\96151\003\Phase2A\2A-WLD11 03-29-2000 01:44:03 pm



No.	Revision	By	Date
CITY OF WICHITA, KANSAS MICHAEL E. LINDEBAK, P.E. - CITY ENGINEER NORTHEAST TRANSMISSION FACILITY - PHASE 2A <b>WATERLINE DETAILS</b> C.O.W. Proj. No. 448-76-245-89465-000-000-001 <b>Professional Engineering Consultants, P.A.</b> 303 S. TOPEKA • WICHITA, KANSAS 67202 316-262-2691 • FAX 316-262-3003			
Designed by	MDK, KJW	Job No.	34-96151-3
Drawn by	JLM	Date	September 1999
			Sht. 5 of 17